U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

SEARCH REQUEST FORM

9-588

Requestor's Name: _____ Serial Number: _____

Date: _____ Phone: _____ Art Unit: _____

Search Topic:
Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevent citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevent claim(s).

STAFF USE ONLY

Date completed: 9-22-98
Searcher: M. SPENCER
Terminal time: 4
Elapsed time: Aug 10
CPU time: _____
Total time: 14
Number of Searches: 1
Number of Databases: 6

Search Site
_____ STIC
___/___ CM-1
_____ Pre-S

Type of Search
_____ N.A. Sequence
___/___ A.A. Sequence
_____ Structure
_____ Bibliographic

Vendors
___/___ ~~IG~~ MPSRCH
_____ STN
_____ Dialog
_____ APS
_____ Geninfo
_____ SDC
_____ DARC/Questel
_____ Other

****

MPSRCH (TM)

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Release 3.1A John F. Collins, Biocomputing Research Unit.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Sep 18 13:44:55 1998; MasPar time 2.47 Seconds
537.274 Million cell updates/sec
Tabular output not generated.

Title: >US-08-765-588-6
Description: (1-188) from US08765588.pep
Perfect Score: 1458
Sequence: 1 MSPLLRRLLLAALLQLAPAQ.....CQGRGLELNPDTCRCRKLRR 188

Scoring table: PAM 150
Gap 11

Searched: 77021 seqs, 7058996 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:5_COMB 2:PCT9_COMB 3:backfiles1

Statistics: Mean 29.152; Variance 121.909; scale 0.239

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
1	1458	100.0	188	1	US-08-469-	Sequence 11, Applicati	6.66e-135
2	1317	90.3	188	1	US-08-469-	Sequence 5, Applicatio	1.60e-120
3	1240	85.0	195	1	US-08-469-	Sequence 7, Applicatio	1.11e-112
4	897	61.5	133	1	US-08-469-	Sequence 9, Applicatio	6.75e-78
5	709	48.6	102	1	US-08-469-	Sequence 2, Applicatio	5.58e-59
6	517	35.5	165	3	5194596-18	Patent No. 5194596.	7.46e-40
7	517	35.5	165	3	5219739-19	Patent No. 5219739.	7.46e-40
8	518	35.5	191	3	5332671-4	Patent No. 5332671.	5.94e-40
9	505	34.6	190	3	5332671-3	Patent No. 5332671.	1.15e-38
10	492	33.7	164	3	5219739-18	Patent No. 5219739.	2.20e-37
11	492	33.7	164	3	5219739-17	Patent No. 5219739.	2.20e-37
12	492	33.7	164	3	5194596-17	Patent No. 5194596.	2.20e-37
13	486	33.3	189	1	US-08-469-	Sequence 15, Applicati	8.58e-37
14	400	27.4	55	1	US-08-469-	Sequence 3, Applicatio	2.32e-28
15	383	26.3	121	3	5194596-19	Patent No. 5194596.	1.04e-26
16	383	26.3	121	3	5219739-20	Patent No. 5219739.	1.04e-26
17	377	25.9	231	2	PCT-US96-0	Sequence 10, Applicati	3.99e-26
18	372	25.5	214	3	5240848-11	Patent No. 5240848.	1.22e-25
19	372	25.5	215	3	5219739-22	Patent No. 5219739.	1.22e-25
20	371	25.4	215	3	5240848-7	Patent No. 5240848.	1.53e-25
21	361	24.8	120	3	5219739-9	Patent No. 5219739.	1.42e-24
22	361	24.8	120	3	5194596-9	Patent No. 5194596.	1.42e-24
23	296	20.3	149	1	US-08-469-	Sequence 14, Applicati	2.48e-18
24	178	12.2	419	2	PCT-US96-0	Sequence 2, Applicatio	2.27e-07
25	177	12.1	160	1	US-08-094-	Sequence 1, Applicatio	2.79e-07
26	177	12.1	220	3	5175255-4	Patent No. 5175255.	2.79e-07
27	177	12.1	226	3	5498600-2	Patent No. 5498600.	2.79e-07
28	177	12.1	241	3	5175255-2	Patent No. 5175255.	2.79e-07
29	177	12.1	241	3	5175255-8	Patent No. 5175255.	2.79e-07
30	177	12.1	241	3	5194596-15	Patent No. 5194596.	2.79e-07
31	177	12.1	241	1	US-08-387-	Sequence 4, Applicatio	2.79e-07
32	177	12.1	241	3	5219739-15	Patent No. 5219739.	2.79e-07
33	177	12.1	241	1	US-08-469-	Sequence 13, Applicati	2.79e-07
34	177	12.1	241	2	PCT-US96-0	Sequence 9, Applicatio	2.79e-07
35	172	11.8	109	1	US-08-094-	Sequence 3, Applicatio	7.81e-07
36	172	11.8	109	1	US-08-094-	Sequence 5, Applicatio	7.81e-07
37	170	11.7	109	3	5498600-3	Patent No. 5498600.	1.18e-06
38	170	11.7	109	1	US-08-094-	Sequence 2, Applicatio	1.18e-06
39	170	11.7	109	2	PCT-US93-0	Sequence 1, Applicatio	1.18e-06
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44	169	11.6	125	1	US-07-883-	Sequence 7, Applicatio	1.45e-06
45	169	11.6	125	1	US-08-095-	Sequence 4, Applicatio	1.45e-06

ALIGNMENTS

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AC xxxxxx
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DT
XX
DE Sequence 11, Application US/08469427A
XX
CC Sequence 11, Application US/08469427A
CC Patent No. 5607918
CC GENERAL INFORMATION:
CC APPLICANT: Eriksson, Ulf
CC APPLICANT: Olofsson, Birgitta
CC APPLICANT: Alitalo, Kari
CC APPLICANT: Pajusola, Katri
CC TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
CC TITLE OF INVENTION: DNA CODING THEREFOR
CC NUMBER OF SEQUENCES: 17
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Evenson, McKeown, Edwards & Lenahan
CC STREET: 1200 G Street, N.W., Suite 700
CC CITY: Washington
CC STATE: DC
CC ZIP: 20005
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/469,427A
CC FILING DATE: 06-JUN-1995
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US 08/397,651
CC FILING DATE: 01-MAR-1995
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Evans, Joseph D
CC REGISTRATION NUMBER: 26,269
CC REFERENCE/DOCKET NUMBER: 41979cp2
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (202) 628-8800
CC TELEFAX: (202) 628-8844
CC INFORMATION FOR SEQ ID NO: 11:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 188 amino acids

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CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
CC       HYPOTHETICAL:  NO
CC       ORIGINAL SOURCE:
CC         TISSUE TYPE:  human fibrosarcoma
SQ   SEQUENCE   188 AA; 21261 MW; 161002 CN;

  Query Match          100.0%;  Score 1458;  DB 1;  Length 188;
  Best Local Similarity 100.0%;  Pred. No. 6.66e-135;
  Matches   188;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

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Db     61 MGTVAKQLVPSCVTVQRCGGCCPDDGLECVPTGQHQVRMQILMIRYPSSQLGEMSLEEHS 120
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Qy     61 MGTVAKQLVPSCVTVQRCGGCCPDDGLECVPTGQHQVRMQILMIRYPSSQLGEMSLEEHS 120

Db    121 QCECRPKKKDSAVKPDSPRPLCPRCTQHHQRPDPRTCRCRCRRRSFLRCQGRGLELNPDT 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    121 QCECRPKKKDSAVKPDSPRPLCPRCTQHHQRPDPRTCRCRCRRRSFLRCQGRGLELNPDT 180

Db    181 CRCRKLRR 188
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Qy    181 CRCRKLRR 188


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AC   XXXXXX
XX
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DE   Sequence 5, Application US/08469427A
XX
CC    Sequence 5, Application US/08469427A
CC    Patent No. 5607918
CC     GENERAL INFORMATION:
CC       APPLICANT:  Eriksson, Ulf
CC       APPLICANT:  Olofsson, Birgitta
CC       APPLICANT:  Alitalo, Kari
CC       APPLICANT:  Pajusola, Katri
CC       TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
CC       TITLE OF INVENTION:  DNA CODING THEREFOR
CC       NUMBER OF SEQUENCES:  17
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Evenson, McKeown, Edwards & Lenahan
CC         STREET:  1200 G Street, N.W., Suite 700
CC         CITY:  Washington
CC         STATE:  DC
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/469,427A
CC         FILING DATE:  06-JUN-1995
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/397,651
CC         FILING DATE:  01-MAR-1995
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Evans, Joseph D
CC         REGISTRATION NUMBER:  26,269
CC         REFERENCE/DOCKET NUMBER:  41979cp2
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (202) 628-8800
CC         TELEFAX:  (202) 628-8844
CC     INFORMATION FOR SEQ ID NO:  5:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  188 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
CC       HYPOTHETICAL:  NO
CC       ORIGINAL SOURCE:
CC         TISSUE TYPE:  adult mouse heart
SQ   SEQUENCE   188 AA; 21442 MW; 162579 CN;

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  Best Local Similarity 87.8%;  Pred. No. 1.60e-120;
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Qy      1 MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL 60

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Db    181 CRCRKPRK 188
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Qy    181 CRCRKLRR 188


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AC   XXXXXX
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DE   Sequence 7, Application US/08469427A
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CC    Sequence 7, Application US/08469427A
CC    Patent No. 5607918
CC     GENERAL INFORMATION:
CC       APPLICANT:  Eriksson, Ulf
CC       APPLICANT:  Olofsson, Birgitta
CC       APPLICANT:  Alitalo, Kari
CC       APPLICANT:  Pajusola, Katri
CC       TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
CC       TITLE OF INVENTION:  DNA CODING THEREFOR
CC       NUMBER OF SEQUENCES:  17
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Evenson, McKeown, Edwards & Lenahan
CC         STREET:  1200 G Street, N.W., Suite 700
CC         CITY:  Washington
CC         STATE:  DC
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/469,427A
CC         FILING DATE:  06-JUN-1995
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/397,651
CC         FILING DATE:  01-MAR-1995
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Evans, Joseph D
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MPSRCH (TM)

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Release 3.1A John F. Collins, Biocomputing Research Unit.

MPsrch_nn n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Fri Dec 11 06:42:18 1998; MasPar time 43.51 Seconds
1172.855 Million cell updates/sec

Tabular output not generated.

Title: >US-08-765-588-3
Description: (1-1094) from US08765588.seq
Perfect Score: 1094
N.A. Sequence: 1 ccatgagccctctgctccgc.....gaaggaaaaaaaaaaaaaaa 1094
Comp: ggtactcgggagacgaggcg.....cttcctttttttttttttt

Scoring table: TABLE default
Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 88822 seqs, 23323279 bases x 2

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: n-issued
1:5_COMB 2:PCT9_COMB 3:backfiles1

Statistics: Mean 8.813; Variance 5.776; scale 1.526

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
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	2	320	29.3	565	1	US-08-469-	Sequence 4, Applicatio	3.12e-183
	3	302	27.6	405	1	US-08-469-	Sequence 8, Applicatio	1.29e-171
	4	241	22.0	886	1	US-08-469-	Sequence 1, Applicatio	2.08e-132
	5	222	20.3	591	1	US-08-469-	Sequence 6, Applicatio	2.92e-120
	6	67	6.1	7218	1	US-08-232-	Sequence 14, Applicati	5.56e-24
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	8	48	4.4	456	2	PCT-US95-1	Sequence 88, Applicati	3.61e-13
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	13	48	4.4	599	2	PCT-US95-1	Sequence 87, Applicati	3.61e-13
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	15	48	4.4	989	3	5332671-11	Patent No. 5332671.	3.61e-13
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	17	48	4.4	1195	3	5240848-6	Patent No. 5240848.	3.61e-13
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	19	48	4.4	1269	2	PCT-US95-1	Sequence 32, Applicati	3.61e-13
	20	48	4.4	1299	2	PCT-US95-1	Sequence 58, Applicati	3.61e-13
	21	48	4.4	1369	2	PCT-US95-1	Sequence 33, Applicati	3.61e-13
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	23	48	4.4	1809	2	PCT-US95-1	Sequence 79, Applicati	3.61e-13
	24	47	4.3	677	2	PCT-US95-1	Sequence 27, Applicati	1.28e-12
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	26	46	4.2	498	3	5219739-21	Patent No. 5219739.	4.53e-12
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	31	42	3.8	961	3	5219739-16	Patent No. 5219739.	6.67e-10
	32	42	3.8	1543	3	5332671-5	Patent No. 5332671.	6.67e-10
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	37	27	2.5	242	1	US-08-273-	Sequence 1, Applicatio	2.72e-02
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	40	26	2.4	5011	1	US-08-141-	Sequence 1, Applicatio	7.93e-02
c	41	25	2.3	6513	2	PCT-US95-1	Sequence 7, Applicatio	2.28e-01
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c	43	25	2.3	6513	1	US-08-337-	Sequence 7, Applicatio	2.28e-01
c	44	25	2.3	6513	1	US-08-724-	Sequence 7, Applicatio	2.28e-01
c	45	25	2.3	8438	1	US-07-945-	Sequence 1, Applicatio	2.28e-01

ALIGNMENTS

RESULT 1
ID US-08-469-427A-10 STANDARD; DNA; UNC; 570 BP.
AC xxxxxx
DT
DE Sequence 10, Application US/08469427A
CC Sequence 10, Application US/08469427A
CC Patent No. 5607918
CC GENERAL INFORMATION:
CC APPLICANT: Eriksson, Ulf
CC APPLICANT: Olofsson, Birgitta
CC APPLICANT: Alitalo, Kari
CC APPLICANT: Pajusola, Katri
CC TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
CC TITLE OF INVENTION: DNA CODING THEREFOR
CC NUMBER OF SEQUENCES: 17
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Evenson, McKeown, Edwards & Lenahan
CC STREET: 1200 G Street, N.W., Suite 700
CC CITY: Washington
CC STATE: DC
CC ZIP: 20005
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/469,427A
CC FILING DATE: 06-JUN-1995
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US 08/397,651
CC FILING DATE: 01-MAR-1995
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Evans, Joseph D
CC REGISTRATION NUMBER: 26,269
CC REFERENCE/DOCKET NUMBER: 41979cp2
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (202) 628-8800
CC TELEFAX: (202) 628-8844
CC INFORMATION FOR SEQ ID NO: 10:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 570 base pairs
CC TYPE: nucleic acid

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CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  cDNA
CC      HYPOTHETICAL:  NO
CC      ORIGINAL SOURCE:
CC        TISSUE TYPE:  human fibrosarcoma
SQ   SEQUENCE 570 BP; 105 A; 198 C; 173 G; 94 T; 0 OTHER.

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  Matches   412;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

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Db     182 TCATGGGCACCGTGGCCAAACAGCTGGTGCCCAGCTGCGTGACTGTGCAGCGCTGTGGTG 241
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RESULT    2
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DT
DE   Sequence 4, Application US/08469427A
CC   Sequence 4, Application US/08469427A
CC   Patent No. 5607918
CC    GENERAL INFORMATION:
CC      APPLICANT:  Eriksson, Ulf
CC      APPLICANT:  Olofsson, Birgitta
CC      APPLICANT:  Alitalo, Kari
CC      APPLICANT:  Pajusola, Katri
CC      TITLE OF INVENTION:  VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
CC      TITLE OF INVENTION:  DNA CODING THEREFOR
CC      NUMBER OF SEQUENCES:  17
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Evenson, McKeown, Edwards & Lenahan
CC        STREET:  1200 G Street, N.W., Suite 700
CC        CITY:  Washington
CC        STATE:  DC
CC        ZIP:  20005
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/469,427A
CC        FILING DATE:  06-JUN-1995
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/397,651
CC        FILING DATE:  01-MAR-1995
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Evans, Joseph D
CC        REGISTRATION NUMBER:  26,269
CC        REFERENCE/DOCKET NUMBER:  41979cp2
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (202) 628-8800
CC        TELEFAX:  (202) 628-8844
CC    INFORMATION FOR SEQ ID NO:  4:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  565 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  cDNA
CC      HYPOTHETICAL:  NO
CC      ORIGINAL SOURCE:
CC        TISSUE TYPE:  adult mouse heart
SQ   SEQUENCE 565 BP; 120 A; 179 C; 166 G; 100 T; 0 OTHER.

  Query Match           29.3%;  Score 320;  DB 1;  Length 565;
  Best Local Similarity 89.2%;  Pred. No. 3.12e-183;
  Matches   364;  Conservative    0;  Mismatches  44;  Indels   0;  Gaps   0;

Db       1 GAGCCCCCTGCTCCGTCGCCTGCTGCTTGTTGCACTGCTGCAGCTGGCTCGCACCCAGGC 60
Qy       5 gagccctctgctccgccgcctgctgctcgccgcactcctgcagctggccccgcccaggc 64

Db      61 CCCTGTGTCCCAGTTTGATGGCCCCAGCCACCAGAAGAAAGTGGTGCCATGGATAGACGT 120
Qy      65 ccctgtctcccagcctgatgcccctggccaccagaggaaagtggtgtcatggatagatgt 124

Db     121 TTATGCACGTGCCACATGCCAGCCCAGGGAGGTGGTGGTGCCTCTGAGCATGGAACTCAT 180
Qy     125 gtatactcgcgctacctgccagccccgggaggtggtggtgcccttgactgtggagctcat 184

Db     181 GGGCAATGTGGTCAAACAACTAGTGCCCAGCTGTGTGACTGTGCAGCGCTGTGGTGGCTG 240
Qy     185 gggcaccgtggccaaacagctggtgcccagctgcgtgactgtgcagcgctgtggtggctg 244

Db     241 CTGCCCTGACGATGGCCTGGAATGTGTGCCCACTGGGCAACACCAAGTCCGAATGCAGAT 300
Qy     245 ctgccctgacgatggcctggagtgtgtgcccactgggcagcaccaagtccggatgcagat 304

Db     301 CCTCATGATCCAGTACCCGAGCAGTCAGCTGGGGGAGATGTCCCTGGAAGAACACAGCCA 360
Qy     305 cctcatgatccggtacccgagcagtcagctgggggagatgtccctggaagaacacagcca 364

Db     361 ATGTGAATGCAGACCAAAAAAAAAAGGAGAGTGCTGTGAAGCCAGACAG 408
Qy     365 gtgtgaatgcagacctaaaaaaaaggacagtgctgtgaagccagacag 412


RESULT    3
ID   US-08-469-427A-8 STANDARD; DNA; UNC; 405 BP.
AC   xxxxxx
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